

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/518,599  
Source: PG/10  
Date Processed by STIC: 1/10/05

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PCT

## RAW SEQUENCE LISTING

DATE: 01/10/2005

PATENT APPLICATION: US/10/518,599

TIME: 15:28:24

Input Set : D:\Sonn064US.txt

Output Set: N:\CRF4\01102005\J518599.raw

3 <110> APPLICANT: PENNINGER, JOSEPH M.  
 4 CRACKOWER, MICHAEL A.  
 6 <120> TITLE OF INVENTION: ACE2 ACTIVATION FOR TREATMENT OF HEART, LUNG AND  
 7 KIDNEY DISEASE AND HYPERTENSION  
 9 <130> FILE REFERENCE: SONN:064US  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/518,599  
 12 <141> CURRENT FILING DATE: 2004-12-17  
 14 <150> PRIOR APPLICATION NUMBER: PCT/CA03/00882  
 15 <151> PRIOR FILING DATE: 2003-06-19  
 17 <150> PRIOR APPLICATION NUMBER: US 60/389,709  
 18 <151> PRIOR FILING DATE: 2002-06-19  
 20 <160> NUMBER OF SEQ ID NOS: 24  
 22 <170> SOFTWARE: PatentIn version 3.1  
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 26 <211> LENGTH: 3405  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Homo sapiens  
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 36 ggacaaatgg tctgcctttt taaaggaaca gtccaactt gcccaaagt atccactaca 360  
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 41 aagctggaga tctgaggtcg gcaagcagct gaggccatta tatgaagagt atgtggtctt 660  
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57 ggtggtggaa cctgtgcccc atgatgaaac-atactgtgac cccgcatctc tgttccatgt 1620
58 ttctaattgat tactcattca ttcgatatta cacaaggacc ctttaccat tccagtttca 1680
59 agaagcactt tgtaagcag ctaaacaatga aggcctctg cacaagtgtg acatctcaaa 1740
60 ctctacagaa gctggacaga aactgttcaa tatgctgagg cttggaaaat cagaaccctg 1800
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89 &lt;210&gt; SEQ ID NO: 2

90 &lt;211&gt; LENGTH: 805

91 &lt;212&gt; TYPE: PRT

92 &lt;213&gt; ORGANISM: Homo sapiens

94 &lt;400&gt; SEQUENCE: 2

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98 20 25 30
99 Asn His Glu Ala Glu Asp Leu Phe Tyr Gln Ser Ser Leu Ala Ser Trp
100 35 40 45
101 Asn Tyr Asn Thr Asn Ile Thr Glu Glu Asn Val Gln Asn Met Asn Asn
102 50 55 60
103 Ala Gly Asp Lys Trp Ser Ala Phe Leu Lys Glu Gln Ser Thr Leu Ala
104 65 70 75 80
105 Gln Met Tyr Pro Leu Gln Glu Ile Gln Asn Leu Thr Val Lys Leu Gln
106 85 90 95

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107 Leu Gln Ala Leu Gln Gln Asn Gly Ser Ser Val Leu Ser Glu Asp Lys
108      100      105      110
109 Ser Lys Arg Leu Asn Thr Ile Leu Asn Thr Met Ser Thr Ile Tyr Ser
110      115      120      125
111 Thr Gly Lys Val Cys Asn Pro Asp Asn Pro Gln Glu Cys Leu Leu Leu
112      130      135      140
113 Glu Pro Gly Leu Asn Glu Ile Met Ala Asn Ser Leu Asp Tyr Asn Glu
114 145      150      155      160
115 Arg Leu Trp Ala Trp Glu Ser Trp Arg Ser Glu Val Gly Lys Gln Leu
116      165      170      175
117 Arg Pro Leu Tyr Glu Glu Tyr Val Val Leu Lys Asn Glu Met Ala Arg
118      180      185      190
119 Ala Asn His Tyr Glu Asp Tyr Gly Asp Tyr Trp Arg Gly Asp Tyr Glu
120      195      200      205
121 Val Asn Gly Val Asp Gly Tyr Asp Tyr Ser Arg Gly Gln Leu Ile Glu
122      210      215      220
123 Asp Val Glu His Thr Phe Glu Glu Ile Lys Pro Leu Tyr Glu His Leu
124 225      230      235      240
125 His Ala Tyr Val Arg Ala Lys Leu Met Asn Ala Tyr Pro Ser Tyr Ile
126      245      250      255
127 Ser Pro Ile Gly Cys Leu Pro Ala His Leu Leu Gly Asp Met Trp Gly
128      260      265      270
129 Arg Phe Trp Thr Asn Leu Tyr Ser Leu Thr Val Pro Phe Gly Gln Lys
130      275      280      285
131 Pro Asn Ile Asp Val Thr Asp Ala Met Val Asp Gln Ala Trp Asp Ala
132      290      295      300
133 Gln Arg Ile Phe Lys Glu Ala Glu Lys Phe Phe Val Ser Val Gly Leu
134 305      310      315      320
135 Pro Asn Met Thr Gln Gly Phe Trp Glu Asn Ser Met Leu Thr Asp Pro
136      325      330      335
137 Gly Asn Val Gln Lys Ala Val Cys His Pro Thr Ala Trp Asp Leu Gly
138      340      345      350
139 Lys Gly Asp Phe Arg Ile Leu Met Cys Thr Lys Val Thr Met Asp Asp
140      355      360      365
141 Phe Leu Thr Ala His His Glu Met Gly His Ile Gln Tyr Asp Met Ala
142      370      375      380
143 Tyr Ala Ala Gln Pro Phe Leu Leu Arg Asn Gly Ala Asn Glu Gly Phe
144 385      390      395      400
145 His Glu Ala Val Gly Glu Ile Met Ser Leu Ser Ala Ala Thr Pro Lys
146      405      410      415
147 His Leu Lys Ser Ile Gly Leu Leu Ser Pro Asp Phe Gln Glu Asp Asn
148      420      425      430
149 Glu Thr Glu Ile Asn Phe Leu Leu Lys Gln Ala Leu Thr Ile Val Gly
150      435      440      445
151 Thr Leu Pro Phe Thr Tyr Met Leu Glu Lys Trp Arg Trp Met Val Phe
152      450      455      460
153 Lys Gly Glu Ile Pro Lys Asp Gln Trp Met Lys Lys Trp Trp Glu Met
154 465      470      475      480
155 Lys Arg Glu Ile Val Gly Val Val Glu Pro Val Pro His Asp Glu Thr

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156                               485                               490                               495
157 Tyr Cys Asp Pro Ala Ser Leu Phe His Val Ser Asn Asp Tyr Ser Phe -- --
158                               500                               505                               510
159 Ile Arg Tyr Tyr Thr Arg Thr Leu Tyr Gln Phe Gln Phe Gln Glu Ala
160                               515                               520                               525
161 Leu Cys Gln Ala Ala Lys His Glu Gly Pro Leu His Lys Cys Asp Ile
162                               530                               535                               540
163 Ser Asn Ser Thr Glu Ala Gly Gln Lys Leu Phe Asn Met Leu Arg Leu
164 545                               550                               555                               560
165 Gly Lys Ser Glu Pro Trp Thr Leu Ala Leu Glu Asn Val Val Gly Ala
166                               565                               570                               575
167 Lys Asn Met Asn Val Arg Pro Leu Leu Asn Tyr Phe Glu Pro Leu Phe
168                               580                               585                               590
169 Thr Trp Leu Lys Asp Gln Asn Lys Asn Ser Phe Val Gly Trp Ser Thr
170                               595                               600                               605
171 Asp Trp Ser Pro Tyr Ala Asp Gln Ser Ile Lys Val Arg Ile Ser Leu
172                               610                               615                               620
173 Lys Ser Ala Leu Gly Asp Lys Ala Tyr Glu Trp Asn Asp Asn Glu Met
174 625                               630                               635                               640
175 Tyr Leu Phe Arg Ser Ser Val Ala Tyr Ala Met Arg Gln Tyr Phe Leu
176                               645                               650                               655
177 Lys Val Lys Asn Gln Met Ile Leu Phe Gly Glu Glu Asp Val Arg Val
178                               660                               665                               670
179 Ala Asn Leu Lys Pro Arg Ile Ser Phe Asn Phe Phe Val Thr Ala Pro
180                               675                               680                               685
181 Lys Asn Val Ser Asp Ile Ile Pro Arg Thr Glu Val Glu Lys Ala Ile
182                               690                               695                               700
183 Arg Met Ser Arg Ser Arg Ile Asn Asp Ala Phe Arg Leu Asn Asp Asn
184 705                               710                               715                               720
185 Ser Leu Glu Phe Leu Gly Ile Gln Pro Thr Leu Gly Pro Pro Asn Gln
186                               725                               730                               735
187 Pro Pro Val Ser Ile Trp Leu Ile Val Phe Gly Val Val Met Gly Val
188                               740                               745                               750
189 Ile Val Val Gly Ile Val Ile Leu Ile Phe Thr Gly Ile Arg Asp Arg
190                               755                               760                               765
191 Lys Lys Lys Asn Lys Ala Arg Ser Gly Glu Asn Pro Tyr Ala Ser Ile
192                               770                               775                               780
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202 <213> ORGANISM: Mus musculus
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210 aagttcactt gcttcttggg attataatac taacattact gaagaaaatg cccaaaagat 360
211 gagtgaggct gcagccaaat ggtctgcctt ttatgaagaa cagtctaaga ctgccc aaag 420
212 tttctcacta caagaaatcc agactccgat catcaagcgt caactacagg cccttcagca 480
213 aagtgggtct tcagcactct cagcagacaa gaacaaacag ttgaacacaa ttctgaacac 540
214 catgagcacc atttacagta ctggaaaagt ttgcaaccac aagaacccac aagaatgctt 600
215 attactttgag ccaggattgg atgaaataat ggcgacaagc acagactaca actctaggct 660
216 ctgggcatgg gagggctgga gggctgaggt tggcaagcag ctgaggccgt tgtatgaaga 720
217 gtatgtggtc ctgaaaaacg agatggcaag agcaacaat tataacgact atggggatta 780
218 ttggagaggg gactatgaag cagagggagc agatggctac aactataacc gtaaccagtt 840
219 gattgaagat gtagaacgta ccttcgcaga gatcaagcca ttgtatgagc atcttcagtc 900
220 ctatgtgagg aggaagttga tggataccta cccttcctac atcagcccca ctggatgcct 960
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222 tgttcccttt gcacagaaac caaacataga tgttactgat gcaatgatga atcagggctg 1080
223 ggatgcagaa aggatatttc aagaggcaga gaaattcttt gtttctgttg gccttcctca 1140
224 tatgactcaa ggattctggg caaactctat gctgactgag ccagcagatg gccggaaagt 1200
225 tgtctgccac cccacagctt gggatctggg acacggagac ttcagaatca agatgtgtac 1260
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235 tgacatctca aattccactg aagctgggca gaagttgctc aagatgctga gtcttgga 1860
236 ttcagagccc tggaccaaa ccttgga 1920
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254 <211> LENGTH: 805
255 <212> TYPE: PRT
256 <213> ORGANISM: Mus musculus
258 <400> SEQUENCE: 4
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RAW SEQUENCE LISTING ERROR SUMMARY  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 44  
Seq#:8; N Pos. 51  
Seq#:9; N Pos. 43  
Seq#:10; N Pos. 55  
Seq#:11; N Pos. 53  
Seq#:12; N Pos. 54  
Seq#:13; N Pos. 57  
Seq#:14; N Pos. 65  
Seq#:15; N Pos. 61  
Seq#:16; N Pos. 37  
Seq#:17; N Pos. 29  
Seq#:18; N Pos. 41

## VERIFICATION SUMMARY

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Input Set : D:\Sonn064US.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:60  
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:547 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:557 M:283 W: Missing Blank Line separator, <400> field identifier  
L:567 M:283 W: Missing Blank Line separator, <400> field identifier  
L:577 M:283 W: Missing Blank Line separator, <400> field identifier